

⌚ Title: **JP04295072A2: EXTRUDED BUILDING MATERIAL MADE OF LIGHTWEIGHT CEMENT**

⌚ Derwent Title: Lightweight cement prod. for house walls - comprising granular vermiculite powder contg. hydraulic binder and aggregate
[\[Derwent Record\]](#)

⌚ Country: JP Japan

⌚ Kind: A (See also: [JP03024236B2](#))

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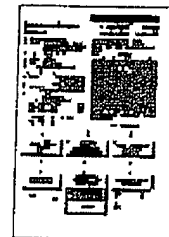
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⌚ Application Number: JP1991000060483

⌚ IPC Code: C04B 38/08; E04F 13/14;

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⌚ Abstract:

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PURPOSE: To obtain the extruded lightweight cement building material having excellent surface smoothness by incorporating a specific ratio of vermiculite adjusted to a specific grain size distribution as lightweight aggregate into this material.

CONSTITUTION: The extruded building material made of the lightweight cement is obtd. by adding proper volume of water to a material, which is obtd. by compounding an admixture with ceramic powder consisting of a hydraulic binder and aggregate, then subjecting this mixture to kneading, extrusion molding and curing. The ceramic powder contg. 5 to 30% vermiculite adjusted to the grain size distribution of $\geq 20\text{wt.}\%$ of $\leq 50\mu$ grain size and $\leq 10\%$ of $\geq 300\mu$ grain size is used at this time. The surface smoothness of the vermiculite to be used is insufficient in the case of $\geq 10\%$ of 300μ grain size. The effect of improving extrudability is low and the surface smoothness is not improved in the case of $< 20\%$ of $\leq 50\mu$ grain size. The effect of improving the smoothness is low if the vermiculite is $\leq 5\text{ pts.wt.}$ in 100 pts. total ceramic powder. The degradation in the strength arising from the decrease of the sp. gr. and the drastic degradation in freezing hazard resistance important as a building material are resulted if the content thereof exceeds 30 pts.


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PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6572697	2003-06-03	Gleeson; James A.	James Hardie Research Pty Limited	Fiber cement building materials with low density additives

Other Abstract
Info:

CHEMABS 118(14)130759V CAN118(14)130759V



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